

Álvaro Corrales Cano

Data Scientist and Economist with 4 years of experience in data analysis in client-facing roles in tech and consulting firms

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🔗 alvarocorrales.github.io

Technical skills

Methods

Main area of expertise: Econometrics

- Causal inference – Panel data, RCT, regression discontinuity
- Discrete choice – Classification problems
- Time series – ARIMA, GARCH
- Duration Analysis

Machine Learning experience

- Natural Language Processing (NLP) – Sentiment Analysis, Topic modelling
- Linear and logistic regression, SVM, KNN, Random Forests, Gradient Boosting
- Clustering methods – Hierarchical, K-means

Current interests

- Deep Learning – CNN, LSTM
- Bayesian Networks (with a [blog in Towards Data Science](#))

Technologies

Python

- Data wrangling: *numpy*, *pandas*, *scipy*
- ML: *scikit-learn*, *statsmodels*, *keras*, *xgboost*, *lightgbm*, *optuna*
- Visualisation & dashboarding: *matplotlib*, *seaborn*, *plotly*, *streamlit*
- NLP: *gensim*, *nltk*, *spacy*

Cloud

- IBM Cloud and Cloud Pak for Data
- Docker (basic)

Other

- Stata, Excel, R (basic)

Professional experience

IBM

London, UK

Data Scientist

November 2019 – Present

Cloud Pak Acceleration Team - Helping organisations use their data with **Cloud** technology, **AI** and an **Agile** methodologies. Show the value of IBM's Cloud Pak for Data through PoC and MVP. Relevant experience:

- **Emergent Alliance** - **Led two teams** producing open-source material in the fight against Covid-19. Code available on [Github](#).
 - i. Co-authored a model of the economy to study how economic shocks propagate across economic sectors. We spined it of as a [publicly available app](#).
 - ii. Identified mental health problems and perception of vaccines for [NHS](#) on Twitter using topic modelling and sentiment analysis.
- **Publishing industry** - Demonstrated how to leverage NLP and clustering techniques to identify authors of comments in online forums that use different user names across several platforms.
- **Energy sector** – Improved the data collection and organisation process of a company by using a harmonised catalogue with data protection rules, which can be partially accessed by external users, as required by national regulations.

Give-back activities

- I have **spoken in public events** with organisations such as Code First Girls and PyData London, for which I have achieved recognition as a public [speaker](#) and [teacher](#).
- I enjoy **mentoring** people that want to start a career as a Data Scientist, for which I have also gained [recognition](#).
- I publish blogs about Data Science with my IBM [Medium](#) account.

Charles River Associates

Consulting Associate

London, UK

August 2018 – July 2019

Competition Practice – Working in mergers and abuse of dominance cases.

- Successfully advised PayPal in its acquisition of iZettle, a company in the card payments industry, in a \$2.2bn operation.
- Worked on other confidential cases in the tech, air transport and natural gas sectors in front of the UK's and the EU's competition authorities.
- Responsibilities ranged from analysing large datasets in **Python** and **Stata** to drafting economic reports to be presented as evidence in my cases.

Neovantas Consulting

Business Analyst – Data Analyst

Madrid, Spain

January 2016 – August 2017

- **Banking sector** – Led a lighthouse project for the design and implementation of debt recovery strategy for a collection agency using speech analytics and econometric techniques. Improvement of up to +29 p.p. in collection ratios. Started this project as an intern; after one year, I was leading a team of three people, including client-facing responsibilities.
- **Banking sector** – Built for major European bank building an econometric model to evaluate the impact of internal management training.
- **Mentor** of new colleagues.

Education

Barcelona Graduate School of Economics

2017 – 2018

MSc in Economics and Finance - 8.8/10

Specialised in Econometrics and Machine Learning

Universidad Carlos III de Madrid

2012 – 2016

BA in Economics - 8.2/10

University of California, Berkeley

2014 – 2015

BA in Economics – Exchange Year (3) – 8.5/10

Languages

- **Spanish** – Native
- **English** – Full proficiency
- **French** – Intermediate

Interests

I am passionate reader of ancient Greco-Roman literature, such as Homer's *Odyssey* or Herodotus' *Histories*. I also enjoy podcasting and evangelising in blogs and presentations.